```c
#include <stdio.h>
#include <stdlib.h>
int main()
{
    int i, j, k, a, n;
    printf("Enter the size of the array: \n");
    scanf("%d", &n);
    int array1[n][n], array2[n][n], array3[n*n];
    for (i = 0; i < n * n; i++)
        array3[i]=rand()%100;
    for (i = 0; i < n * n; i++)
        printf("%d ", array3[i]);
    int o = 0;
    for (i = 0; i < n; i++)
        for (j = 0; j < n; j++)
            array1[i][j] = array3[o++];

    printf("\nThe given 2D array is \n");
    for (i = 0; i < n; i++)
    {
        for (j = 0; j < n; j++)
        {
            printf(" %d", array1[i][j]);
        }
        printf("\n");
    }

    printf("After arranging the columns in increasing order \n");

    for (i = 0; i < n; i++)
    {
        for (j = 0; j < n; j++)
        {
            for (k = i + 1; k < n; k++)
            {
                if (array2[i][j] > array2[k][j])
                {
                    a = array2[i][j];
                    array2[i][j] = array2[k][j];
                    array2[k][j] = a;
                }
            }
        }
    }

    for (i = 0; i < n; i++)
    {
        for (j = 0; j < n; j++)
        {
            printf("%d ", array2[i][j]);
```

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51.         }
52.         printf("\n");
53.     }
54. }
```